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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:490069 CAPLUS

DOCUMENT NUMBER: 135:242452

TITLE: Versatile Strategy for Oligonucleotide Derivatization.

Introduction of Lanthanide(III) Chelates to

Oligonucleotides

AUTHOR(S): Hovinen, Jari; Hakala, Harri

CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101,

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SOURCE: Organic Letters (2001), 3(16), 2473-2476

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

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AB Novel nucleosidic phosphoramidite blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-dimethoxytrityl)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also synthesized.

IT 358978-84-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(versatile strategy for oligonucleotide derivatization introduction of lanthanide chelates to oligonucleotides)

RN 358978-84-4 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-0-[bis(4-methoxyphenyl)phenylmethyl]-3-0-[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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27 73 28 12 13 14 58 59 60 15 16 17 18 19 20 21 22 23 24 25 26 29 30 55 56 57 71 58 59 60 61 62 63 64 65 66 67 68 69 70 72 ring nodes : 1 2 3 4 5 6 7 8 45 46 47 48 49 50 10 11 31 32 33 34 35 36 37 38 39 40 41 42 43 51 52 53 54 chain bonds : 5-6 9-15 10-25 11-14 12-16 13-17 17-18 17-19 18-22 19-20 19-21 2-12 3-13 23-24 25-26 26-27 27-28 28-29 29-30 30-31 34-37 39-53 41-48 44-55 56-57 57-63 57-64 58-59 58-61 59-60 60-69 60-73 61-62 62-70 62-74 55-58 64-66 65-67 65-71 66-68 66-72 ring bonds : 1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 31-32 31-36 32-33 33-34 34-35 35-36 37-38 37-42 38-39 39-40 40-41 41-42 43-44 43-48 44-45 45-46 46-47 47-48 49-50 49-54 50-51 51-52 52-53 53-54 exact/norm bonds : 1-2 1-5 2-3 3-4 3-13 4-5 5-6 6-7 6-11 7-8 8-9 9-10 9-15 10-11 11-14 13-17 17-18 17-19 55-58 56-57 57-63 57-64 58-59 58-61 60-69 62-70 65-67 exact bonds : 2-12 10-25 12-16 18-22 19-20 19-21 22-23 23-24 25-26 26-27 27-28 28-29 30-31 34-37 39-53 41-48 44-55 51-56 59-60 60-73 61-62 62-74 63-65 64-66 29-30 62-74 63-65 64-66 65-71 30-31 66-72 normalized bonds : 31-36 32-33 33-34 34-35 35-36 37-38 37-42 38 - 3939-40 40-41 41-42 43-44 31-32 51-52 43-48 44-45 45-46 46-47 47-48 49-50 49-54 50-51 52-53 53-54

chain nodes :

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:Atom 53:Atom 54:Atom 55:Atom 56:Atom 57:Atom

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